



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 10/019597

**TO:** James Schultz  
**Location:** rem/2d18/2c18  
**Art Unit:** 1635  
**Friday, September 17, 2004**  
**Case Serial Number:** 10/019595

**From:** Paul Schulwitz  
**Location:** Biotech-Chem Library  
**REM-1A65**  
**Phone:** (571)272-2527  
  
**[paul.schulwitz@uspto.gov](mailto:paul.schulwitz@uspto.gov)**

### Search Notes

Examiner Schultz,

See attached results.

If you have any questions about this search feel free to contact me at any time.

---

Thank you for using STIC search services!

Paul Schulwitz  
Technical Information Specialist  
STIC Biotech/Chem Library  
(571)272-2527

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STIC-Biotech/ChemLib

131977

me

From: Schultz, James  
Sent: Wednesday, September 08, 2004 1:49 PM  
To: STIC-Biotech/ChemLib  
Subject: Seq Search 10/019,595

Hello,  
Could you please run a length limited nucleotide sequence search on SEQ ID NO: 1 in the above entitled case which returns hits 30 nucleotides long and under?

Thanks,  
Doug Schultz

James Douglas Schultz, PhD  
AU 1635 (Biotechnology)  
Patent Examiner  
United States Patent and Trademark Office  
(Office) REM 2D18  
(Mail) REM 2C18  
(571) 272-0763

131977  
STIC-Biotech/ChemLib  
Seq Search 10/019,595

\*\*\*\*\*

STAFF USE ONLY

Searcher: \_\_\_\_\_  
Searcher Phone: 2-  
Date Searcher Picked up: \_\_\_\_\_  
Date Completed: 9/17  
Searcher Prep/Rev. Time: \_\_\_\_\_  
Online Time: \_\_\_\_\_

\*\*\*\*\*

Type of Search  
NA Sequence: # \_\_\_\_\_  
AA Sequence :# \_\_\_\_\_  
Structure: # \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

\*\*\*\*\*

Vendors and cost where applicable  
STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
QUESTEL/ORBIT: \_\_\_\_\_  
LEXIS/NEXIS: \_\_\_\_\_  
SEQUENCE SYSTEM: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other(Specify): \_\_\_\_\_

This Page ~~is~~ linked (uspto)

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score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	DB	ID	Description	
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2	24.4	0.5	29	6	AR166605	See AR166605	
3	24.4	0.5	29	6	BD238387	See BD238387	
4	24.4	0.5	29	6	AR279813	See AR279813	
5	24.4	0.5	29	6	AR288232	See AR288232	
C	24.4	0.5	29	6	AX048408	See AX048408	
7	24.4	0.5	29	6	AX048409	See AX048409	
8	24.4	0.5	29	6	AX052994	See AX052994	
9	24.4	0.5	29	6	AX353685	See AX353685	
10	24.4	0.5	29	6	AX662302	See AX662302	
11	24.4	0.5	29	6	BD204968	See BD204968	
12	24.2	0.5	30	6	AR051244	See AR051244	
13	24.2	0.5	30	6	AR127791	See AR127791	
14	24.2	0.5	30	6	I28373	See I28373	
C	15	24	0.5	24	6	AR009472	See AR009472
C	16	24	0.5	24	6	E12007	See E12007
C	17	23.8	0.5	28	6	BD234335	See BD234335
C	18	23.8	0.5	29	6	AX430216	See AX430216
	19	23.8	0.5	29	6	BD165919	See BD165919

卷之三

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C	C	22	0.8	0.4	25	6	AR174581	Sequence
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C	C	22	0.8	0.4	26	6	I79494	Sequence
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C	C	38	22.6	0.4	27	6	AX711956	Sequence
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C	C	40	22.4	0.4	24	6	AR010037	Sequence
C	C	41	22.4	0.4	24	6	AR034772	Sequence
C	C	42	22.4	0.4	24	6	AR068465	Sequence
C	C	43	22.4	0.4	24	6	AR105984	Sequence
C	C	44	22.4	0.4	24	6	AR107972	Sequence

## SUMMARIES

ALIGNMENTS

RESULT 1

AR162080 AR162080 29 bp

LOCUS Sequence 8 from patent US 6258558.

DEFINITION AR162080 29 bp

ACCESSION AR162080 29 bp

VERSION AR162080.1 GI:16229144

KEYWORDS .

SOURCE Unknown.

ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 29)

AUTHORS Szostak, J.W., Roberts, R.W. and Liu, Y.

TITLE Method for selection of proteins using location/Qualifiers

JOURNAL Patent: US 6258558-A 8 10-JUL-2001

FEATURES

Pred. No. is the number of results predicted by chance to have a

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  /mol_type="unassigned DNA"

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  DB 4 AAAAAGAAAAAAACC 29

RESULT 2
LOCUS AR166605 29 bp DNA linear PAT 17-OCT-2001
DEFINITION Sequence 8 from patent US 6281344.
ACCESSION AR166605
VERSION 1 GI:16241997
KEYWORDS
SOURCE Unknown.
ORGANISM Unassigned.
REFERENCE 1 (bases 1 to 29)
  AUTHORS Szostak, J.W. and Liu, R.
  TITLE Nucleic acid-protein fusion molecules and libraries
  JOURNAL Patent: US 6281344-A 8 28-AUG-2001;
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RESULT 3
LOCUS BD238387 29 bp DNA linear PAT 17-JUL-2003
DEFINITION Sorting of proteins using RNA-protein fused body.
ACCESSION BD238387
VERSION 1 GI:33048157
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 29)
  AUTHORS Szostak, J.W. and Liu, R.
  TITLE Sorting of proteins using RNA-protein fused body
  JOURNAL Patent: JP 2002536025-A/5 29-OCT-2002;
  COMMENT THE GENERAL HOSPITAL CORP
  OS Artificial Sequence
  PN JP 2002536025-A/5
  PD 29-OCT-2002
  PR 01-FEB-2000 JP 2000598669
  PR 09-FEB-1999 US 09/247190
  PI JACK W SZOSTAK, RICHARD W ROBERTS, RIHE LIU
  PC C12N15/09, C07K7/00, C07K14/00, C12Q1/68, C12N15/00 CC
  Translation template
  FH Key
  FT source
  FT Location/Qualifiers
  1. .29
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RESULT 4
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DEFINITION Sequence 8 from patent US 6518018.
ACCESSION AR279813
VERSION 1 GI:29714958
KEYWORDS
SOURCE Unknown.
ORGANISM Unassigned.
REFERENCE 1 (bases 1 to 29)
  AUTHORS Szostak, J.W. and Roberts, R.W.
  TITLE RNA-antibody fusions and their selection
  JOURNAL Patent: US 6518018-A 8 11-FEB-2003;
  FEATURES Location/Qualifiers
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  DB 4 AAAAAGAAAAAAACC 29

RESULT 5
LOCUS AR288232 29 bp DNA linear PAT 12-JUN-2003
DEFINITION Sequence 3 from patent US 6537749.
ACCESSION AR288232
VERSION 1 GI:31675516
KEYWORDS
SOURCE Unknown.
ORGANISM Unassigned.
REFERENCE 1 (bases 1 to 29)
  AUTHORS Kuimelis, R.G. and Wagner, R.
  TITLE Addressable protein arrays
  JOURNAL Patent: US 6537749-A 3 25-MAR-2003;
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  DB 4 AAAAAGAAAAAAACC 29

RESULT 6
LOCUS AX048408/c 29 bp DNA linear PAT 12-JAN-2000

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DEFINITION Sequence 7 from Patent WO0071747.  
 ACCESSION AX048408  
 VERSION AX048408.1 GR:12225572  
 KEYWORDS synthetic construct  
 ORGANISM synthetic construct  
 artificial sequences.

1. Boekenkamp, D., Hoppe, H.U. and Burgstaller, P., Konz, D., Woelk, U. and Pignot, M. Detection system for analyzing molecular interactions, production and utilization thereof and utilization thereof  
 Patent: WO 0071747-A 10 30-NOV-2000;  
 Aventis Research & Technologies GmbH & Co. KG, (DE) Location/Qualifiers

1. .29 /organism="synthetic construct"  
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 Db 26 AAAAAGAAAAAAAGAAAAACC 1

RESULT 7 AX048409 Sequence 8 from Patent WO0071747.  
 LOCUS AX048409  
 DEFINITION AX048409  
 VERSION AX048409.1 GI:12225573  
 KEYWORDS synthetic construct  
 SOURCE synthetic construct  
 ORGANISM synthetic construct  
 artificial sequences.

1. Boekenkamp, D., Hoppe, H.U. and Burgstaller, P., Konz, D., Woelk, U. and Pignot, M. Detection system for analyzing molecular interactions, production and utilization thereof and utilization thereof and utilization thereof  
 Patent: WO 0071747-A 8 30-NOV-2000;  
 Aventis Research & Technologies GmbH & Co. KG (DE) Location/Qualifiers

1. .29 /organism="synthetic construct"  
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ORIGIN .

Query Match 0.5%; Score 24.4; DB 6; Length 29;  
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QY 5188 AACAAAAAAAGAAAAAAACC 5213  
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RESULT 8 AX052994 Sequence 10 from Patent WO0071749.  
 LOCUS AX052994  
 DEFINITION AX052994  
 VERSION AX052994.1 GI:12227096  
 KEYWORDS synthetic construct  
 SOURCE synthetic construct  
 ORGANISM synthetic construct  
 artificial sequences.

1. Boekenkamp, D., Hoppe, H.U. and Burgstaller, P., Konz, D., Woelk, U. and Pignot, M. Detection system for analyzing molecular interactions, production and utilization thereof and utilization thereof and utilization thereof  
 Patent: WO 0071749-A 10 30-NOV-2000;  
 Aventis Research & Technology GmbH & Co. KG, (DE) Location/Qualifiers

1. .29 /organism="synthetic construct"  
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 /note="Beschreibung der kunstlichen Sequenz:Puromycin-Linker"

ORIGIN .

Query Match 0.5%; Score 24.4; DB 6; Length 29;  
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QY 5188 AACAAAAAAAGAAAAAAACC 5213  
 Db 26 AAAAAGAAAAAAAGAAAAACC 1

RESULT 9 AX353685 Sequence 5 from Patent WO0204656.

LOCUS AX353685  
 DEFINITION AX353685  
 VERSION AX353685.1 GI:18618749  
 KEYWORDS synthetic construct  
 SOURCE synthetic construct  
 ORGANISM artificial sequences.

REFERENCE 1. Wagner, P. and Polakowski, T.  
 AUTHORS Bio-probes and use thereof  
 TITLE Patent: WO 0204656-A 5 17-JAN-2002;  
 JOURNAL Xzillion GmbH & CO.KG (DE)

FEATURES Location/Qualifiers

1. .29 /organism="synthetic construct"  
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 /db\_xref="taxon:32630"  
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 Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5188 AACAAAAAAAGAAAAAAACC 5213  
 Db 26 AAAAAGAAAAAAAGAAAAACC 1

RESULT 10 AX662302 Sequence 41 from Patent WO02059293.

LOCUS AX662302  
 DEFINITION AX662302  
 VERSION AX662302.1 GI:29163186  
 KEYWORDS synthetic construct  
 SOURCE synthetic construct  
 ORGANISM artificial sequences.

REFERENCE 1. Forster, A.C. and Blacklow, S.C.  
 AUTHORS Process and compositions for peptide, protein and peptidomimetic  
 TITLE synthesis  
 JOURNAL Patent: WO 02059293-A 4 01-AUG-2002;  
 Forster, Anthony C. (US) ; Blacklow, Stephen C. (US)

FEATURES	Location/Qualifiers	TITLE	Convergent synthesis of branched and multiply connected macromolecular structures
FEATURES	source	JOURNAL	Patent: US 5830658-A 12 03-NOV-1998;
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Best Local Similarity 96.2%; Pred. No. 2.2e+06; Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;	Best Local Similarity 89.7%; Pred. No. 2.4e+06; Matches 26; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	Query	5183 CTCTCAACAAAAAAAC 5211
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RESULT 11		RESULT 13	
BD204968	BD204968 29 bp DNA linear PAT 17-JUL-2003	BD204968 AR127791 30 bp DNA linear PAT 16-MAY-2001	
LOCUS	Protein array enabling site specification.	LOCUS AR127791	
DEFINITION	BD204968	DEFINITION Sequence 12 from patent US 6180777.	
ACCESSION	BD204968	ACCESSION AR127791	
VERSION	BD204968.1 GI:33014738	VERSION AR127791.1 GI:14114386	
KEYWORDS	JP 2002510505-A/3.	KEYWORDS Unknown.	
SOURCE	synthetic construct	SOURCE ORGANISM Unknown.	
ORGANISM	synthetic construct	ORGANISM Unclassified.	
REFERENCE	1 (bases 1 to 29)	REFERENCE 1 (bases 1 to 30)	
AUTHORS	Kuimelis, R.G. and Wagner, R.	AUTHORS Horn, T.	
TITLE	Protein array enabling site specification	TITLE Synthesis of branched nucleic acids	
JOURNAL	Patent: JP 2002510505-A 3 09-APR-2002;	JOURNAL Patent: US 6180777-A 12 30-JAN-2001;	
COMMENT	PHYLOS INC	FEATURES Location/Qualifiers	
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PD	09-APR-2002		
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PR	03-APR-1998 US 60/080686	Best Local Similarity 89.7%; Pred. No. 2.4e+06; Matches 26; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	
PI	ROBERT G KUIMELIS, RICHARD WAGNER	Query	5183 CTCTCAACAAAAAAAC 5211
PC	C12N15/09, C07H21/02, C07H21/04, C12M1/00, C12Q1/68, G01N33/566, PC	Db	1 CACACAAAAAAAC 29
CC	Oligonucleotide used for attaching puromycin	RESULT 14	
CC	Key Location/Qualifiers	CC 128373 30 bp DNA linear PAT 06-FEB-1997	
FT	source 1. .29	DEFINITION Sequence 12 from patent US 5571677.	
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FEATURES	Location/Qualifiers	VERSION 128373	
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		AUTHORS Gryaznov, S.M.	
		TITLE Convergent synthesis of branched and multiply connected macromolecular structures	
		JOURNAL Patent: US 5571677-A 12 05-NOV-1996;	
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AR051244	AR051244 30 bp DNA linear PAT 29-SEP-1999	Best Local Similarity 89.7%; Pred. No. 2.4e+06; Matches 26; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	
LOCUS	Sequence 12 from patent US 5830658.	Query	5183 CTCTCAACAAAAAAAC 5211
DEFINITION	AR051244	DEFINITION	
VERSION	AR051244.1 GI:5974608	VERSION	
KEYWORDS		KEYWORDS Unknown.	
SOURCE		ORGANISM Unclassified.	
ORGANISM		REFERENCE 1 (bases 1 to 30)	
Unknown.		AUTHORS Gryaznov, S.M.	

Db 1 CACACAAAAAA...AAAAAA 29

RESULT 15  
AR009472/c AR009472 24 bp DNA linear PAT 04-DEC-1998  
LOCUS Sequence 22 from patent US 5756295.  
DEFINITION AR009472  
ACCESSION AR009472  
VERSION AR009472.1 GI:3968277  
KEYWORDS Unknown.  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 24)  
AUTHORS Onida, H. and Hosoya, M.  
TITLE DNA primer and a method for screening DNAs  
JOURNAL Patent: US 5756295-A 22-26-MAY-1998;  
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Db 24 CCATGGTACCCGGATCCTCGAATT 1

Search completed: September 15, 2004, 22:19:07  
Job time : 19500 secs

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OM nucleic - nucleic search, using sw model  
Run on: September 15, 2004, 13:12:42 ; Search time 1798 Seconds  
(without alignments)  
12371.282 Million cell updates/sec

Title: US-10-019-595-1  
Perfect score: 5236  
Sequence: 1 cgaggcggccgtttagc.....gttaccggatccctcgaaatc 5236

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 3373863 seqs, 2124099041 residues  
Total number of hits satisfying chosen parameters: 2723956

Minimum DB seq length: 0  
Maximum DB seq length: 30

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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1: geneseqn1980s;\*  
2: geneseqn1990s;\*  
3: genesectm2000s;\*  
4: geneseqn2001as;\*  
5: geneseqn2001bs;\*  
6: geneseqn2002s;\*  
7: geneseqn2003as;\*  
8: geneseqn2003bs;\*  
9: geneseqn2003cs;\*  
10: geneseqn2004s;\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
1	24.4	0.5	29	3 AAA94315	Aaa94315 RNA-prote
2	24.4	0.5	29	4 AAS00066	Aas00066 Synthetic
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4	24.4	0.5	29	6 AAK98637	Aak98637 S cerevis
5	24.4	0.5	30	2 AAV48087	Aav48087 Oligonucl
6	24.2	0.5	30	2 AAQ83940	Aaq83940 Oligonucl
7	24.2	0.5	30	5 AAP60462	Aaf60462 Oligonucl
C	8	24	0.5	24	Aaq50581 Asparagin
C	9	23.8	0.5	28	Aaa40358 PBuescri
C	10	23.8	0.5	29	6 ABN83378 Mononucle
C	11	23.4	0.4	25	2 AXB4258 PCR prime
C	12	23.4	0.4	26	2 AX07466 Human BS1
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C	17	23.2	0.4	29	4 AAF74935 CD40L pol
C	18	23.2	0.4	29	4 AAF74921 CD40L pol
C	19	23.2	0.4	29	4 AAF74928 CD40L pol
C	20	23.2	0.4	30	4 AAF74908 CD40L pol
C	21	22.8	0.4	26	4 AAD03682 Human ful
C	22	22.8	0.4	26	6 AAS20596 Human zsi
C	23	22.8	0.4	26	6 ABS52638 Human sec

#### ALIGNMENTS

RESULT 1	
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AC	AAA94315;
XX	
DT	11-JAN-2001 (first entry)
XX	
DE	RNA-protein fusion oligonucleotide 30-P.
XX	
KW	RNA-protein fusion; protein library; protein isolation; gene cloning; ss.
XX	
OS	Synthetic.
XX	
Key	Location/Qualifiers
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FT	/*tag= a
FT	/mod_base= OTHER
FT	/note= "attached to puromycin, a peptide acceptor"
XX	
PN	WO200047775-A1.
XX	
PD	17-AUG-2000.
XX	
PP	01-FEB-2000; 2000WO-US002589.
XX	
PR	09-FEB-1999; 99US-00247190.
XX	
PA	(GEHO ) GEN HOSPITAL CORP.
XX	
PI	Szostak JW, Roberts RW, Liu R;
XX	
DR	WPI; 2000-533022/48.
XX	
PT	Producing protein or DNA libraries which are useful for improving existing proteins, by in vitro translating protein coding sequences to produce RNA-protein fusions and incubating these protein fusions under high salt conditions.
PT	
PT	Disclosure; Page 43; 121pp; English.
XX	
CC	The present sequence is one of a number of oligonucleotides which were used for the generation of RNA-protein fusions, including fusions having a myc epitope tag. The RNA-protein fusions comprise a protein covalently linked to the 3' end of its own mRNA. This is accomplished by synthesis and in vitro or in situ translation of an mRNA molecule with a peptide
CC	
CC	and in situ translation of an mRNA molecule with a peptide
CC	

acceptor attached to its 3' end. The RNA-protein fusions are incubated under high salt conditions to produce a protein library. This method is useful for improving or altering existing proteins, as well as for isolating new proteins and nucleic acid or small molecule targets. It may also be used to improve human or humanised single-chain antibodies for the treatment of a number of diseases. The method is useful for the isolation of proteins with specific binding properties, for screening cDNA libraries and cloning new genes on the basis of protein-protein interactions. Unlike prior art, the new method does not rely on maintaining the integrity of an mRNA:ribosome:nascent chain ternary complex, which is very fragile and is therefore of limited use. The method does not rely on topological links between the protein and the nucleic acid so that the information of the protein is retained and can be recovered in readable, nucleic acid form.

The absence of RNA is advantageous as they can adopt secondary structures which are difficult to predict and can interfere with hybridisation steps and protein folding/function.

5188 AACAAAAAAACCC 5213  
5189 CCACACACACAC 435 Other;

OY 5188 AAACAAAAAATTTTTTAAACCC 5213  
SULT 2

..... BBBBBBBB, BBBB, 2,3 D.F. DB 4 AAAA.....AAAAAACC 29

RESULT 3

Synthetic branched encoding molecule sequence. AAH20990 standard; DNA; 29 BP. XX

xx C-myc oncoprotein interacts with linker proximal to Synthetic.

Key: C-myc; epitope; detection; amplification; biomedical diagnosis; KW: C-myc; epitope; detection; amplification; biomedical diagnosis;

PN WO200142494-A2.

14-JUN-2001.  
XX  
WD

/note= "Other= Covalently linked to puromycin" XX

PA (AVERT) AVENEMENT DES & MECANISMUS OCTETS CMDS & CO. VO  
XX

27-AUG-1999; 99US-0151261P. DR  
WPI; 2001-381706/40. VV

PT diagnosis, has as detection agent specific polypeptide coupled to nucleic acid probe, for immunological diagnosis.

THEORY AND PRACTICE IN  
TEACHING ENGLISH

This invention describes a novel test system (A) which comprises at least one test chamber (B) and a control and data processing system (C).

CC range of (I), e.g. diagnostic or pharmaceutical agents, secondary  
 CC metabolites, herbicides or pesticides. (A) allow simultaneous, parallel  
 CC detection of many different analytes (high throughput capacity),  
 CC relatively simply (only a few incubation and washing steps are required)  
 CC and with high sensitivity and selectivity. This sequence represents  
 CC primer used in the amplification of the c-myc DNA fragment which encodes  
 CC an epitope used to illustrate the method of the invention

XX Sequence 29 BP; 27 A; 2 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.5%; Score 24.4; DB 6; Length 29;  
 Best Local Similarity 96.2%; Pred. No. 8.6e+04;  
 Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 5188 AACAAAAAAACAAAAAAAC 5213  
 Db 4 AAAAAGAAAAAAAC 29

RESULT 4  
 AAK98637 standard; DNA; 29 BP.  
 XX AAK98637;  
 XX DT 19-APR-2002 (first entry)  
 XX DE *S cerevisiae* alpha factor receptor STE2 vector linker.  
 XX KW Biological material detection; electrophoresis; bioprobe isolation;  
 KW alpha factor receptor; STE2; linker; ss.  
 XX OS Synthetic.

XX Location/Qualifiers 29  
 FH /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "modified by puromycin"  
 XX WO200204656-A2.

XX PI Wagner P, Polakowski T;  
 XX PD 17-JAN-2002.  
 XX PF 26-JUN-2001; 2001WO-EP007259.  
 XX PR 07-JUL-2000; 2000DE-01033194.  
 XX PA (XZIL-) XZILLION GMBH & CO KG.  
 XX PS Example 1; Page 12; 20pp; German.

XX WPI; 2002-154934/20.  
 XX PT Detecting and purifying biological material by (di)electrophoresis,  
 PT useful e.g. for separating tissues and viruses, comprises using a probe  
 PT that alters (di)electrophoretic properties.  
 XX PS Example 1; Page 12; 20pp; German.  
 XX The present invention relates to a method for the detection or  
 CC purification of biological material by electrophoresis, which comprises  
 CC (i) treating the biological material containing different species with a  
 CC bioprobe and (ii) establishing an electric field for detection or  
 CC purification of at least one complex formed between the biological  
 CC material being tested and a specifically bound bioprobe. The method is  
 CC used for detection and purification of tissue, cells, cell organelles,  
 CC viruses, proteins, nucleic acids, lipids and/or other organic compounds.  
 CC It can also be used for the isolation of specific bioprobes from a  
 CC library of bioprobes. The present sequence is a linker described in the  
 CC exemplification of the invention  
 XX Sequence 29 BP; 27 A; 2 C; 0 G; 0 T; 0 U; 0 Other;

CC range of (I), e.g. diagnostic or pharmaceutical agents, secondary  
 CC metabolites, herbicides or pesticides. (A) allow simultaneous, parallel  
 CC detection of many different analytes (high throughput capacity),  
 CC relatively simply (only a few incubation and washing steps are required)  
 CC and with high sensitivity and selectivity. This sequence represents  
 CC primer used in the amplification of the c-myc DNA fragment which encodes  
 CC an epitope used to illustrate the method of the invention

XX Sequence 29 BP; 27 A; 2 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.5%; Score 24.4; DB 6; Length 29;  
 Best Local Similarity 96.2%; Pred. No. 8.6e+04;  
 Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 5188 AACAAAAAAACAAAAAAAC 5213  
 Db 4 AAAAAGAAAAAAAC 29

RESULT 5  
 AAV48087 standard; DNA; 30 BP.  
 XX AAV48087;  
 XX AC  
 XX DT 27-OCT-1998 (first entry)  
 XX DE Oligonucleotide 30-P.  
 XX KW In situ translation; RNA-protein fusion; binding reagent; antibody;  
 KW industrial catalyst; ss.  
 XX OS Synthetic.

XX Location/Qualifiers 30  
 FH /\*tag= a  
 FT /note= "Puromycin"  
 XX WO9831700-A1.  
 XX PN 23-JUL-1998.  
 XX PD 14-JAN-1998; 98WO-US000807.  
 XX PF 21-JAN-1997; 97US-0035963P.  
 PR 06-NOV-1997; 97US-0064491P.  
 XX PA (GEHO ) GEN HOSPITAL CORP.  
 XX PI Szostak JW, Roberts RW, Liu R;  
 XX DR 1998-414032/35.  
 XX PT Selection of specific protein by screening protein-RNA fusions generated  
 PT in vitro or in situ - useful for, e.g. identifying enzymes and antibodies  
 PT with altered properties, potentially useful as catalysts or for therapy  
 PT or diagnosis.  
 XX PA (GEHO ) GEN HOSPITAL CORP.  
 XX PS Disclosure; Page 39; 94pp; English.  
 XX PI; 1998-414032/35.

XX The Oligonucleotides AAV48087, AAV48089-V48091 and AAV48096-V48098 and  
 CC variations were used to generate RNA-protein fusions. These were used in  
 CC the selection of a specific protein or RNA, by in vitro or in situ  
 CC translation of candidate RNA molecules to produce RNA-protein fusions,  
 CC then selecting specific RNA protein fusions. The method is used to select  
 CC proteins (or DNA encoding them) having altered properties, e.g. for  
 CC identification or new binding reagents, to identify improved human  
 CC antibodies or new enzymes. These proteins are potentially useful in  
 CC diagnosis and therapy, or as industrial catalysts. The methods allow many  
 CC rounds of selection and amplification to be performed, resulting in  
 CC enrichment of even very rare molecules and allowing isolation of proteins  
 CC that bind specifically to almost any compound or catalyse almost any  
 CC reaction  
 XX Sequence 30 BP; 27 A; 2 C; 0 G; 0 T; 0 U; 1 Other;

Query Match 0.5%; Score 24.4; DB 2; Length 30;  
 Best Local Similarity 96.2%; Pred. No. 8.8e+04;  
 Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 5188 AACAAAAAAACAAAAAAAC 5213

Db	4	AAAAA     AAAAA	29	
<b>RESULT 6</b>				
ID	AAQ83940	AAAAA     AAAAA		
ID	AAQ83940	standard; DNA; 30 BP.		
XX				
AC	AAQ83940;			
XX				
DT	25-MAR-2003 (revised)			
DT	04-OCT-1995 (first entry)			
XX				
DE	Oligonucleotide clamp O, for producing comb-type branched polymer.			
XX				
KW	HIV; pol; nef; oligonucleotide clamp; branched; macromolecule; ss.			
XX				
OS	Synthetic.			
XX				
FT	Key	Location/Qualifiers		
FT	modified_base	1		
FT		/*tag= <sup>a</sup>		
FT		/note= "Modified with SP(O-) (=O) -"		
XX				
XX	W09501365-A1.			
XX	PN			
XX	PD	12-JAN-1995.		
XX	XX			
PF	05-JUL-1994;	94WO-US007557.		
XX	XX			
PR	02-JUL-1993;	93US-00087386.		
XX	XX			
PA	(LYNX-) LYNX THERAPEUTICS INC.			
XX	PI	Gryaznov SM;		
XX	WPI;	1995-060944/08.		
XX				
PT	Synthesis of branched polymers and novel branched polymeric structures -			
PT	used as molecular probes esp. for detecting poly-nucleotide(s).			
XX				
PS	Example 8; Page 33; 52pp; English.			
XX				
CC	The sequences given in AAQ83938, AAQ83952 and AAQ83940 are used in the construction of an oligonucleotide clamp. The clamp is a comb-type branched polymer which has 3' termini and was used to bind a target sequence comprising a segment of the HIV pol and nef genes in single stranded or double stranded forms. An oligonucleotide clamp is a compound capable of forming a covalently closed macromolecule or a stable circular complex after specifically binding to the target polynucleotide.			
CC	Oligonucleotide clamps generally comprise one or more oligonucleotide moieties capable of specific binding to the target molecule and one or more pairs of binding moieties covalently linked to the oligonucleotide moieties. Upon annealing of the oligonucleotides moieties to the target polynucleotide, the binding moieties of a pair are brought into juxtaposition so that they form a stable covalent or non-covalent linkage or complex. The interaction of the binding moieties effectively clamps the specifically annealed oligonucleotide moieties to the target polynucleotide. (Updated on 25-MAR-2003 to correct PN field.)			
CC				
SQ	Sequence 30 BP; 27 A; 3 C; 0 G; 0 T; 0 U; 0 Other;			
CC				
Query	Match	0.5%; Score 24.2; DB 5; Length 30;		
Best	Local	Similarity 89.7%; Pred. No. 9.7e+04;		
Matches	26; Conservative 0; Mismatches 3; Indels 0; Gaps 0;			
Qy	5183 CTCCTCAACAAAAA     AAAAA 5211			
Db	1 CACACAAAAA     AAAAA 29			
<b>RESULT 8</b>				
ID	AAQ50581/C			
XX	AAQ50581 standard; DNA; 24 BP.			
AC	AAQ50581;			
XX				
DT	25-MAR-2003 (revised)			
DT	24-MAY-1994 (first entry)			
XX	Asparaginylendopeptidase oligonucleotide.			
DE				
XX				
KW	Asparaginylendopeptidase; Canavalia ensiformis; seed; L-asparagine; primer; PCR; protein fragmentation; peptide synthesis; ss.			
XX				
OS	Synthetic.			
XX				
PN	JP05276960-A.			
XX				
PD	26-OCT-1993.			
<b>RESULT 7</b>				
ID	AAF60462	standard; DNA; 30 BP.		
XX				
AC	AAF60462;			
XX				
DT	27-APR-2001 (first entry)			
XX	Oligonucleotide clamp #22.			
DE				
XX				
KW	Oligonucleotide clamp; ds.			
XX				
OS	Unidentified.			
XX				
PN	US6180777-B1.			
XX				
PD	30-JAN-2001.			
XX				
PF	03-JAN-1997; 97US-00787321.			
XX				
PR	12-JAN-1996; 96US-0009918P.			
XX				
PA	(FARB ) BAYER CORP.			
XX				
PI	Horn T;			
XX				
WPI	; 2001-201911/20.			
XX				
DR				
<b>RESULT 9</b>				
XX	Synthesizing branched nucleic acids useful as diagnostic and molecular probes, involves combining first units having haloalkylamino groups and second units having thiol or phosphorothioate groups.			
XX				
XX	Example 8; Col 19; 20pp; English.			
XX				
CC	The present invention relates to a method for synthesising a branched or multiply connected macromolecular structure, comprising oligonucleotide clamps (OC). The macromolecular structure is capable of specifically binding to a target molecule, and can therefore be used as probes. At least one OC comprises a target binding sequence that binds specifically and stably with the target molecule, and at least two OCs comprise signal generation moieties capable of generating a detectable signal in the presence of the target molecule. In addition the OCs are connected to one another by thioalkylamino, or thiophosphorylalkylamino bridges. The present sequence is an OC used in the present invention			
CC				
CC	Sequence 30 BP; 27 A; 3 C; 0 G; 0 T; 0 U; 0 Other;			
SQ				
Query	Match	0.5%; Score 24.2; DB 5; Length 30;		
Best	Local	Similarity 89.7%; Pred. No. 9.7e+04;		
Matches	26; Conservative 0; Mismatches 3; Indels 0; Gaps 0;			
Qy	5183 CTCCTCAACAAAAA     AAAAA 5211			
Db	1 CACACAAAAA     AAAAA 29			

CC The methods are useful for the cloning small amounts of nucleic acids and  
 CC forming genomic libraries of complex populations of DNA or cDNA. The  
 CC methods allow the cloning of minute amounts of nucleic acids efficiently  
 CC and avoids the size selection problems of prior art systems. Larger  
 CC nucleic acid fragments are just as easily cloned, allowing highly  
 CC representative libraries to be made. Vector to vector ligation is avoided  
 CC using the methods. AAA40351-A40366 represents primers used to illustrate  
 CC the method of the invention

XX SQ Sequence 28 BP; 1 A; 1 C; 1 G; 25 T; 0 U; 0 Other;

XX Query Match 0.5%; Score 23.8; DB 3; Length 28;

XX Best Local Similarity 92.6%; Pred. No. 1.2e+05;

XX Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5188 AACAAAAAAAGAAAAACCA 5214

DB 28 AAAAAGAAAAAAAGAACTA 2

RESULT 10

ID ABN83378 standard; DNA; 29 BP.

XX ABN83378;

XX AC ABN83378;

DT 15-AUG-2002 (first entry)

XX Mononucleotide repeat locus BAT25 probe #1.

XX Mononucleotide repeat locus; human; BAT25; probe; microsatellite; tumour;

XX ss.

XX OS Homo sapiens.

XX Key 29

XX modified\_base /\*tag= a

XX /mod base= OTHER

XX /note= "Labelled with Fluorescein"

XX EP1207210-A1.

XX PN 2000EP-00124897.

XX PD 22-MAY-2002.

XX PP 13-NOV-2001; 2001EP-00126930.

XX PR 15-NOV-2000; 2000EP-00124897.

XX PN (HOFF ) ROCHE DIAGNOSTICS GMBH.

XX PA (HOFF ) HOFFMANN LA ROCHE & CO AG F.

XX PR Primer; cloning; ligation; ss.

XX OS Synthetic.

XX PN WO200036088-A1.

XX DE pBluescriptSK+ phagemid primer SEQ ID NO: 8.

XX DT 10-NOV-2000 (first entry)

XX DE WO200036088-A1.

XX DE Primer; cloning; ligation; ss.

XX OS Synthetic.

XX PN 22-JUN-2000.

XX PD 22-JUN-2000.

XX PR 17-DEC-1999; 99WO-US030277.

XX PR 17-DEC-1998; 98US-00213834.

XX PA (ROMA/ ) ROMANTCHIKOV Y.

XX PI Romantchikov Y;

XX DR WPI; 2000-442381/38.

XX PS Inserting a nucleic acid into a circular vector comprising joining their  
 PT ends, melting, and reannealing ends at two different concentrations,  
 PT useful for cloning and forming genomic  
 PT libraries.

XX Example 3; Page 67; 71pp; English.

XX This invention describes a novel method (M1) for inserting a nucleic acid  
 CC (N1) into a circular vector (V1) comprising joining ends of N1 and V1  
 CC under a first nucleic acid concentration, melting hybridized cohesive  
 CC circularization ends, and reannealing the ends at a second concentration.

XX PS Claim 16; Page 7; 19pp; English.

XX The present invention relates to a method for analysing a target nucleic  
 CC acid consisting of repetitive and non-repetitive sequences. The method  
 CC comprises hybridising a polynucleotide probe comprising a segment  
 CC complementary to a non-repetitive region and a segment complementary to  
 CC an adjacent repetitive region, where the second segment consists of a  
 CC defined number of repeats, and determining the melting point temperature  
 CC of the hybrid. The method is used to analyse microsatellites, especially  
 CC microsatellite instability, particularly as a means for detecting an  
 CC hereditary tumours. Alternatively, the method is used to identify an  
 CC individual in a population. The present sequence is a probe for

CC Mononucleotide repeat locus BAT25, and was used to illustrate the  
CC invention  
XX Sequence 29 BP; 26 A; 2 C; 0 G; 1 T; 0 U; 0 Other;  
SQ Query Match 0.5%; Score 23.8; DB 6; Length 29;  
Best Local Similarity 92.6%; Pred. No. 1.2e+05;  
Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
OS Synthetic.  
Qy 5188 AACAAAAAAACACACACCA 5214  
Db 3 AAAAAGAAAAAAATCA 29  
XX  
RESULT 11  
AAX84258/C  
ID AAX84258 standard; DNA; 25 BP.  
XX  
AC AAX84258;  
XX DT 08-SEP-1999 (first entry)  
XX DE PCR primer for human Nck associated protein 1 coding sequence.  
XX KW Nck associated protein 1; Nap1; human; apoptosis; Alzheimer's disease;  
KW therapy; PCR primer; ss.  
XX OS Synthetic.  
OS Homo sapiens.  
XX PN WO9931239-A1.  
XX PD 24-JUN-1999.  
XX PF 14-DEC-1998; 98WO-JP005646.  
XX PR 15-DEC-1997; 97JP-00363183.  
XX PA (KYOU ) KYOWA HAKKO KOGYO KK.  
PA (SAKA ) SAKAKI Y.  
XX PI Sakaki Y;  
XX DR WPI; 1999-395181/33.  
XX PT Protein inhibiting apoptosis, useful in the diagnosis and treatment of  
PT Alzheimer's disease.  
XX PS Example 1; Page 76; 90pp; Japanese.  
XX This sequence represents a PCR primer used to isolate DNA encoding the  
CC human Nck associated protein 1 (Nap1) of the invention. Nap1 inhibits  
CC apoptosis. The protein can be used in the investigation, diagnosis and  
CC treatment (e.g. by gene therapy) of Alzheimer's disease  
XX Sequence 25 BP; 0 A; 0 C; 1 G; 24 T; 0 U; 0 Other;  
SQ Query Match 0.4%; Score 23.4; DB 2; Length 25;  
Best Local Similarity 96.0%; Pred. No. 1.4e+05;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
OS Synthetic.  
Qy 5187 CAACAAAAAAACACACACCA 5211  
Db 25 CAAAAAGAAAAAAATCA 1  
XX  
RESULT 12  
AAX07466/C  
ID AAX07466 standard; cDNA; 26 BP.  
XX AC AAX07466;  
XX DT 08-JUN-1999 (first entry)  
XX  
Human BS124 specific EST clone oligonucleotide.  
XX DE Human BS124 specific EST clone oligonucleotide.  
XX KW BS124; breast; cancer; detection; diagnosis; prevention; treatment; EST;  
KW ss.  
XX OS Synthetic.  
XX PN WO9859049-A1.  
XX PD 30-DEC-1998.  
XX PF 19-JUN-1998; 98WO-US012862.  
XX PR 20-JUN-1997; 97US-00879354.  
XX PA (ABBO ) ABBOTT LAB.  
XX Billing-Medel PA, Cohen M, Colpitts TL, Friedman PN, Gordon J;  
PI Granados EN, Hodges SC, Klass MR, Kratochvil JD, Russell JC;  
PI Scheffel CP, Stroupe SD, Yu H;  
XX DR WPI; 1999-105623/09.  
XX New isolated BS124 polynucleotides and polypeptides - used for detecting,  
PT diagnosing, preventing or treating diseases or conditions of the breast,  
PT such as breast cancer.  
XX Disclosure; Page 97; 125pp; English.  
XX The sequence is that of an oligonucleotide used in the isolation of a  
CC BS124-specific EST clone. It is useful for detecting, diagnosing,  
CC staging, preventing or treating, or determining predisposition to  
CC diseases or conditions of the breast, such as breast cancer  
XX SQ Sequence 26 BP; 0 A; 0 C; 1 G; 25 T; 0 U; 0 Other;  
Query Match 0.4%; Score 23.4; DB 2; Length 26;  
Best Local Similarity 96.0%; Pred. No. 1.4e+05;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 5187 CAACAAAAAAACACACACCA 5211  
Db 26 CAAAAAGAAAAAAATCA 2  
XX  
RESULT 13  
AAX78723/C  
ID AAX78723 standard; DNA; 26 BP.  
XX AC AAX78723;  
XX DT 03-SEP-1999 (first entry)  
XX DE Human Pancreatic PA153 EST-specific clone primer 12.  
XX KW Pancreatic disease; PA153; human; cytostatic; detection; antigen;  
KW anti-PA153; antagonist; therapy; treatment; tumour; metastasis;  
KW gene therapy; EST; expressed sequence tag; primer; ss.  
XX OS Synthetic.  
OS Homo sapiens.  
XX PN WO9931274-A2.  
XX PD 24-JUN-1999.  
XX PF 11-DEC-1998; 98WO-US026441.  
XX PR 15-DEC-1997; 97US-00990568.  
XX PA (ABBO ) ABBOTT LAB.  
XX

PI Billing-Medel PA, Cohen M, Colpitts TL, Friedman PN, Gordon J;  
 PI Granados EN, Hodges SC, Klass MR, Kratochvil JD, Roberts-Rapp L;  
 PI Russell JC, Stroupe SD;  
 XX DR; 1999-405041/34.

XX PA153 cDNA transcribed from pancreatic tissue.

XX Example 2; Page 121; 123pp; English.

XX This invention describes novel contiguous and partially overlapping cDNA sequences and their encoded polypeptides, designated PA153, transcribed from human pancreatic tissue and which have cytostatic activity. The PA153 polynucleotides, proteins and antibodies are all useful in methods of detection. Detection of PA153 polynucleotide, antigens or anti-PA153 antibodies in a sample is indicative of pancreatic disease. PA153 antibodies (antagonists) can also be used *in vivo* for therapeutic use, e.g. treatment of pancreatic disease, tumours or metastases. Antisense PA153 polynucleotides can be used in gene therapy of pancreatic diseases. AAX78712-X78725 represent primers used in the method of the invention

XX Sequence 26 BP; 0 A; 0 C; 1 G; 25 T; 0 U; 0 Other;

XX Query Match 0.4%; Score 23.4; DB 2; Length 26;

XX Best Local Similarity 96.0%; Fred. No. 1.4e+05; Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

XX QY 5187 CAACAAAAAA 5211

XX Db 26 CAAAAAA 2

RESULT 14  
 AAV71936/C  
 ID AAV71936 standard; DNA; 27 BP.  
 XX AC  
 XX AAV71936;  
 XX DT 18-FEB-1999 (first entry)

XX Anchored poly T RT-PCR primer.

XX DE Normalised; cDNA library; mRNA cloning; reverse transcription; immobilise; screening; hybridisation; nucleic acid amplification; expression pattern; drug development; PCR primer; RT-PCR; ss.  
 XX KW Synthetic.  
 XX OS  
 XX PN WO9851789-A2.  
 XX PD 19-NOV-1998.  
 XX PF 13-MAY-1998; 98WO-DD000186.  
 XX PR 13-MAY-1997; 97DK-00000547.  
 XX PR 19-MAY-1997; 97US-00871030.  
 XX PR 27-MAR-1998; 98DK-00000432.  
 XX PA (DISP-) DISPLAY SYSTEMS BIOTECH APS.  
 XX PI Warthoe PR;  
 XX DR; 1999-009772/01.

XX PS Preparation of normalised, subdivided cDNA libraries from mRNA - by reverse transcription and amplification, used to screen for new genes and interacting proteins, potential drugs, and for diagnosis.  
 XX Example 1; Page 29; 71pp; English.

XX The invention relates to preparation of a normalised, subdivided library of amplified cDNA from the coding regions of mRNA in a sample. The method involves reverse transcription, with at least one cDNA primer of formula 5'-Con1-dTn2-Vn3-Nn4 to form first strand cDNA where Con1 = any sequence of 1-100 nucleotides; dT = deoxythymidinyl; n2 is at least 1; n3 and n4 are both 0, or n3 is 1 and n4 is at least 1; is followed by second strand cDNA synthesis using the first strand as template and a second cDNA primer of a similar formula, in the presence of DNA polymerase I (or its Klenow fragment) and amplification of double-stranded cDNA with a set of amplification primers. Comparison of cDNA in the prepared library with a database (a computer-generated list of molecular weights of restricted DNA fragments of known sequence) is used to determine presence of an expressed protein in a cell, also to detect changes in such expression (particularly for diagnosis of disease). Surfaces (chip) having amplified cDNA stably immobilised on it, obtained by a similar method, are used to screen for genes of a particular family, by hybridisation with nucleic acid from the family (to identify new genes) and to detect differences in expression patterns between cells. The polypeptides expressed by the libraries can be used for drug development. Sequences AAV71935 to AAV71946 represent primers used to exemplify the method of the invention

CC 5'-Con1-dTn2-Vn3-Nn4 to form first strand cDNA where Con1 = any sequence of 1-100 nucleotides; dT = deoxythymidinyl; n2 is at least 1; n3 and n4 are both 0, or n3 is 1 and n4 is at least 1; is followed by second strand cDNA synthesis using the first strand as template and a second cDNA primer of a similar formula, in the presence of DNA polymerase I (or its Klenow fragment) and amplification of double-stranded cDNA with a set of amplification primers. Comparison of cDNA in the prepared library with a database (a computer-generated list of molecular weights of restricted DNA fragments of known sequence) is used to determine presence of an expressed protein in a cell, also to detect changes in such expression (particularly for diagnosis of disease). Surfaces (chip) having amplified cDNA stably immobilised on it, obtained by a similar method, are used to screen for genes of a particular family, by hybridisation with nucleic acid from the family (to identify new genes) and to detect differences in expression patterns between cells. The polypeptides expressed by the libraries can be used for drug development. Sequences AAV71935 to AAV71946 represent primers used to exemplify the method of the invention

CC Example 2; Page 121; 123pp; English.

CC This invention describes novel contiguous and partially overlapping cDNA sequences and their encoded polypeptides, designated PA153, transcribed from human pancreatic tissue and which have cytostatic activity. The PA153 polynucleotides, proteins and antibodies are all useful in methods of detection. Detection of PA153 polynucleotide, antigens or anti-PA153 antibodies in a sample is indicative of pancreatic disease. PA153 antibodies (antagonists) can also be used *in vivo* for therapeutic use, e.g. treatment of pancreatic disease, tumours or metastases. Antisense PA153 polynucleotides can be used in gene therapy of pancreatic diseases. AAX78712-X78725 represent primers used in the method of the invention

CC Sequence 27 BP; 0 A; 1 C; 1 G; 25 T; 0 U; 0 Other;

CC Query Match 0.4%; Score 23.4; DB 2; Length 27;

CC Best Local Similarity 96.0%; Fred. No. 1.4e+05; Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

CC QY 5187 CAACAAAAAA 5211

CC Db 26 CAAAAAA 2

RESULT 15  
 AAF74918  
 ID AAF74918 standard; DNA; 29 BP.  
 XX AC  
 XX AAF74918;  
 XX DT 23-MAY-2001 (first entry)  
 XX DE CD40L poly-A tract sequence SEQ ID NO:15.  
 XX Human; CD40L; promoter; CD40 ligand promoter; rheumatoid arthritis; diagnosis; antiarthritic; immunosuppressive; ds.  
 XX KW antiinflammatory; inflammatory disease; autoimmune disease; ds.  
 XX OS Homo sapiens.  
 XX PN WO200119844-A1.  
 XX PR 22-MAR-2001.  
 XX PR 13-SEP-2000; 2000WO-US024966.  
 XX PR 13-SEP-1999; 99US-0153625P.  
 XX PA (NYRE-) NEW YORK SOC RELIEF RUPTURED & CRIPPLED.  
 XX PI Crow MK, Li Y;  
 XX DR; 2001-244776/25.  
 XX PT New altered CD40L promoter for use in the study, diagnosis and treatment of a variety of inflammatory disorders and autoimmune diseases, such as rheumatoid arthritis.  
 XX PS Example 1; Fig 3; 90pp; English.  
 XX The present invention describes an isolated, purified nucleic acid, which is an altered CD40 ligand (CD40L) promoter (I) for CD40 ligand, having residues 331-455 of the sequence comprising 455 nucleotides given in AAF74905 where A in the wild type sequence at position 331 (corresponding to position -125) is replaced with C. (I) has antiarthritic, antiinflammatory, immunosuppressive and antiinflammatory activities, and can be used in gene therapy. (I) is useful in the study, diagnosis and treatment of inflammatory and autoimmune diseases, as well as diseases in

CC which elevated expression of CD40L is a factor, e.g., rheumatoid CC arthritis. The present sequence represents a CD40L poly-A tract sequence CC which is used in an example from the present invention.

```

Query Match      0.4%;   Score 23.2;   DB 4;   Length 29;
Best Local Similarity 89.3%;   Pred. No. 1.6e+05;
Matches 25;   Conservative 0;   Mismatches 3;   Indels 0;   Gaps 0;

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Search completed: September 15, 2004, 16:54:03  
Job time: 1802 secs

GenCore version 5.1.6  
 Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model  
 Run on: September 15, 2004, 16:11:08 ; Search time 323 Seconds  
 (without alignment)  
 8996.046 Million cell updates/sec

Title: US-10-019-595-1  
 Perfect score: 5236  
 Sequence: 1 ctagccggcccttgaggc.....gtacccggatccctcgaaattc 5236

Scoring table: IDENTITY\_NUC  
 Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0  
 Maximum DB seq length: 30

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Database : Issued Patents NA:  
 1: /cgn2\_6\_ptodata/2/ina/5A\_COMB.seq: \*  
 2: /cgn2\_6\_ptodata/2/ina/5B\_COMB.seq: \*  
 3: /cgn2\_6\_ptodata/2/ina/6A\_COMB.seq: \*  
 4: /cgn2\_6\_ptodata/2/ina/6B\_COMB.seq: \*  
 5: /cgn2\_6\_ptodata/2/ina/PCTUS\_COMB.seq: \*  
 6: /cgn2\_6\_ptodata/2/ina/backfiles1.seq: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	24.4	0.5	29	3	Sequence 8, Appli
2	24.4	0.5	29	3	Sequence 8, Appli
3	24.4	0.5	29	3	Sequence 8, Appli
4	24.4	0.5	29	3	Sequence 8, Appli
5	24.4	0.5	29	4	Sequence 8, Appli
6	24.4	0.5	29	4	Sequence 8, Appli
7	24.2	0.5	30	1	Sequence 12, Appli
8	24.2	0.5	30	2	Sequence 12, Appli
9	24.2	0.5	30	3	Sequence 12, Appli
c 10	24	0.5	24	1	Sequence 3, Appli
c 11	23.8	0.5	29	4	Sequence 7, Appli
c 12	23.4	0.4	26	1	Sequence 3, Appli
c 13	23.4	0.4	30	4	Sequence 4, Appli
c 14	22.8	0.4	26	1	Sequence 1, Appli
c 15	22.8	0.4	26	4	Sequence 38, Appli
c 16	22.8	0.4	26	4	Sequence 7, Appli
c 17	22.8	0.4	26	4	Sequence 38, Appli
c 18	22.8	0.4	26	4	Sequence 38, Appli
c 19	22.6	0.4	26	4	Sequence 6, Appli
c 20	22.6	0.4	26	4	Sequence 10, Appli
c 21	22.6	0.4	26	4	Sequence 43, Appli
c 22	22.6	0.4	29	4	Sequence 5, Appli
c 23	22.4	0.4	24	1	Sequence 25, Appli
c 24	22.4	0.4	24	1	Sequence 50, Appli
c 25	22.4	0.4	24	1	Sequence 50, Appli
c 26	22.4	0.4	24	2	Sequence 1, Appli
c 27	22.4	0.4	24	2	Sequence 50, Appli

#### ALIGNMENTS

RESULT 1  
 US-09-244-794A-8  
 ; Sequence 8, Application US/09244794A  
 ; Patent No. 6214553  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Szostak, Jack W.  
 ; APPLICANT: Roberts, Richard W.  
 ; APPLICANT: Liu, Rihe  
 ; TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN  
 ; FILE REFERENCE: 00786/350006  
 ; CURRENT APPLICATION NUMBER: US/09/244,794A  
 ; CURRENT FILING DATE: 1999-02-05  
 ; PRIOR APPLICATION NUMBER: 60/035,963  
 ; PRIOR FILING DATE: 1997-01-27  
 ; PRIOR APPLICATION NUMBER: 60/064,491  
 ; PRIOR FILING DATE: 1997-11-06  
 ; PRIOR APPLICATION NUMBER: 09/007,005  
 ; PRIOR FILING DATE: 1998-01-14  
 ; NUMBER OF SEQ ID NOS: 33  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 8  
 ; LENGTH: 29  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Translation template  
 US-09-244-794A-8  
 ; Query Match Score 24.4; DB 3; Length 29;  
 ; Best Local Similarity 96.2%; Pred. No. 6e+03;  
 ; Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 5188 AACAA.....AAAAAAAC 5 213  
 Db 4 AAA.....AAAAAAAC 29  
 ; RESULT 2  
 US-09-007-005-8  
 ; Sequence 8, Application US/09007005B  
 ; Patent No. 6258558  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Szostak, Jack W.  
 ; APPLICANT: Roberts, Richard W.  
 ; APPLICANT: Liu, Rihe  
 ; TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN  
 ; FILE REFERENCE: 00786/350006  
 ; CURRENT APPLICATION NUMBER: US/09/007,005B

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CURRENT APPLICATION NUMBER: US/09/244,796
; CURRENT FILING DATE: 1998-01-14
; EARLIER APPLICATION NUMBER: 60/035,963
; EARLIER FILING DATE: 1997-01-27
; EARLIER APPLICATION NUMBER: 60/064,491
; EARLIER FILING DATE: 1997-11-06
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 8
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Translation template
US-09-007-005-B

Query Match 0.5%; Score 24.4; DB 3; Length 29;
Best Local Similarity 96.2%; Pred. No. 6e+03;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Oy 5188 AACAAAAAAAGAAAAAAACC 5213
Db 4 AAAAAGAAAAAAAGAAAAACC 29

RESULT 3
US-09-247-190-B
; Sequence 8, Application US/09247190
; Patent No. 6261804
; GENERAL INFORMATION:
; APPLICANT: Szostak, Jack W.
; APPLICANT: Roberts, Richard W.
; APPLICANT: Liu, Rihe
; TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN
; TITLE OF INVENTION: SELECTION OF FUSIONS
; FILE REFERENCE: 00786/350005
CURRENT APPLICATION NUMBER: US/09/247,190
; CURRENT FILING DATE: 1999-02-09
; EARLIER APPLICATION NUMBER: 60/035,963
; EARLIER FILING DATE: 1997-01-21
; EARLIER APPLICATION NUMBER: 60/064,491
; EARLIER FILING DATE: 1997-11-06
; EARLIER APPLICATION NUMBER: 09/007,005
; EARLIER FILING DATE: 1998-01-14
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 8
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Translation template
US-09-247-190-B

Query Match 0.5%; Score 24.4; DB 3; Length 29;
Best Local Similarity 96.2%; Pred. No. 6e+03;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Oy 5188 AACAAAAAAAGAAAAAAACC 5213
Db 4 AAAAAGAAAAAAAGAAAAACC 29

RESULT 4
US-09-244-796-B
; Sequence 8, Application US/09244796
; Patent No. 6281344
; GENERAL INFORMATION:
; APPLICANT: Szostak, Jack W.
; APPLICANT: Roberts, Richard W.
; APPLICANT: Liu, Rihe
; TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN
; TITLE OF INVENTION: FUSIONS
; FILE REFERENCE: 00786/350007
CURRENT APPLICATION NUMBER: US/09/244,796
; CURRENT FILING DATE: 1999-01-29
; EARLIER APPLICATION NUMBER: 60/035,963
; EARLIER FILING DATE: 1997-11-06
; EARLIER APPLICATION NUMBER: 09/007,005
; EARLIER FILING DATE: 1998-01-14
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 8
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Translation template
US-09-244-796-B

Query Match 0.5%; Score 24.4; DB 4; Length 29;
Best Local Similarity 96.2%; Pred. No. 6e+03;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Oy 5188 AACAAAAAAAGAAAAAAACC 5213
Db 4 AAAAAGAAAAAAAGAAAAACC 29

RESULT 6
US-09-282-734-3
; Sequence 3, Application US/09282734A
; Patent No. 6537749
; GENERAL INFORMATION:
; APPLICANT: Robert G. Kuimelis et al.
; TITLE OF INVENTION: ADDRESSABLE PROTEIN ARRAYS
; FILE REFERENCE: 50035/009002
CURRENT APPLICATION NUMBER: US/09/282734-3
; CURRENT FILING DATE: 1999-02-05
; EARLIER APPLICATION NUMBER: 60/035,963
; EARLIER FILING DATE: 1997-01-27
; EARLIER APPLICATION NUMBER: 60/064,491
; EARLIER FILING DATE: 1997-11-06
; EARLIER APPLICATION NUMBER: 09/007,005
; EARLIER FILING DATE: 1998-01-14
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 8
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Translation template
US-09-282-734-3

Query Match 0.5%; Score 24.4; DB 4; Length 29;
Best Local Similarity 96.2%; Pred. No. 6e+03;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Oy 5188 AACAAAAAAAGAAAAAAACC 5213
Db 4 AAAAAGAAAAAAAGAAAAACC 29

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CURRENT APPLICATION NUMBER: US/09/282,734  
CURRENT FILING DATE: 1999-03-03  
EARLIER APPLICATION NUMBER: 60/080,686  
EARLIER FILING DATE: 1998-04-03  
NUMBER OF SEQ ID NOS: 29  
SOFTWARE: FastSEQ for Windows Version 3.0  
SEQ ID NO 3  
LENGTH: 29  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Oligonucleotide used for  
S-09-282-734-3

attaching puromycin

RESULT 8  
US-08-689-856-12  
; Sequence 12, Application US/08689856  
; Patent No. 5830658  
; GENERAL INFORMATION:  
; APPLICANT: Sergei M. Gryaznov  
; TITLE OF INVENTION: Convergent Synthesis of Branched and Multiply  
; TITLE OF INVENTION: Connected Macromolecular Structures  
; NUMBER OF SEQUENCES: 26  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Cooley Godward LLP  
; STREET: Five Palo Alto Square, 3000 El Camino Real  
; CITY: Palo Alto

```

Query Match          0.5%;  Score 24.4;  DB 4;  Length 29;
Best Local Similarity 96.2%;  Pred. No. 6e+03;
Matches 25;  Conservative 0;  Mismatches 1;  Indels
5188 AACAAAAAAAAAAAAAACC 5213

```

4; Length 29;  
1; Indels 0; Gaps 0;

STATE: California  
COUNTRY: USA  
ZIP: 94306-2155  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible

RESULT 7  
IS-08-455-627-12  
Sequence 12, Application US/08455627  
Date 12/12/2007

1 SOFTWARE: FACETAL RELEASE #1.0, VERSION #1.2.0  
1 CURRENT APPLICATION DATA:  
1 APPLICATION NUMBER: US/08/689,656  
1 FILING DATE:  
1 CLASSIFICATION:  
1 PRIOR APPLICATION DATA:  
1

APPLICANT: Sergei M. Gryaznov  
TITLE OF INVENTION: Convergent Synthesis of Branched and Mu  
TITLE OF INVENTION: Connected Macromolecular Structures  
NUMBER OF SEQUENCES: 26  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: COOLEY, COOKE & CO., LTD  
ADDRESS: 1000 BROADWAY, NEW YORK, NY 10036

## Branched and Multiply Structures

ATTORNEY/AGENT INFORMATION:  
NAME: Nakamura, Jackie N.  
REGISTRATION NUMBER: 35,966  
REFERENCE/DOCKET NUMBER: LYNX-003/01 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415 843 5000

CITY: Palo Alto  
STATE: California  
COUNTRY: USA  
ZIP: 94306-2155  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk

INFORMATION FOR SEQ ID NO: 12:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 30 nucleotides  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/455,627  
FILING DATE: 31-MAY-1995  
CLASSIFICATION: 435

US-08-689-856-12  
Query Match 0.5%; Score 24.2%; Length 30;  
Best Local Similarity 89.7%; Pred. No. 6.8e+03;  
Matches 26; Conservative 0; Mismatches 3;  
Indels 0; Gap 0;

NAME: Nakamura, Jackie N.  
REGISTRATION NUMBER: 35,966  
REFERENCE/DOCKET NUMBER: LYNX-003/01 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-843-5000  
TELEFAX: 415-857-0663

RESULT 9  
US-08-787-321-12  
D6 1 CACACAAAAAA 29

SEQUENCE CHARACTERISTICS:  
 LENGTH: 30 nucleotides  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA  
 S-08-455-627-12

11; Length 30;

Patent No. 6180777  
GENERAL INFORMATION:  
APPLICANT: Horn, Thomas  
TITLE OF INVENTION: SYNTHESIS OF BRANCHED NUCLEIC ACIDS  
FILE REFERENCE: (1300)-1199.002  
CURRENT APPLICATION NUMBER: US/08/787, 321A  
CURRENT FILING DATE: 1997-01-03  
EARLIER APPLICATION NUMBER: US PROV 60/009, 918  
EARLIER FILING DATE: 1996-01-12

matrices 20, convergent 3, missmatrices

Software: ratclifn Ver. 2.1  
SEQ ID NO 12  
LENGTH: 30  
TYPE: DNA  
ORGANISM: Artificial Sequence

OTHER INFORMATION: oligonucleotide  
US-08-787-321-12

Query Match      Best Local Similarity      Score      DB      Length  
Matches      26;      Conservative      89.7%;      Pred. No.      6.8e+03      3;      0;      0;      0;      0;

Qy      5183 CTCTCAACAAAAAA 5211  
Db      1 CACACAAAAAA 29

RESULT 10  
US-08-566-037A-22/C  
Sequence 22, Application US/08566037A

GENERAL INFORMATION:

APPLICANT: Haruo ONDA et al.

TITLE OF INVENTION: DNA PRIMER AND A METHOD FOR SCREENING DNAs

NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESS:

ADDRESSEE: Wenderoth, Lind & Ponack  
STREET: 805 Fifteenth Street, N.W., #700  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20005

COMPUTER READABLE FORM:

COMPUTER: IBM Compatible, 3.5 inch, 1.44 mb  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: Wordperfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/566,037A  
FILING DATE: December 1, 1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warren M. Cheek, Jr.  
REGISTRATION NUMBER: 33,367  
REFERENCE/DOCKET NUMBER:  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-371-8850  
TELEFAX:  
TELEX:  
INFORMATION FOR SEQ ID NO: 22:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 24  
TYPE: Nucleic acid  
STRANDEDNESS: Double  
TOPOLOGY: Linear  
MOLECULE TYPE: Other nucleic acid  
US-08-566-037A-22

Query Match      Best Local Similarity      Score      DB      Length  
Matches      24;      Conservative      100.0%;      Pred. No.      6.7e+03      0;      0;      0;      0;

Qy      5212 CCATGGTACCCGGATCCTCGAATT 5235  
Db      24 CCATGGTACCCGGATCCTCGAATT 1

RESULT 11  
US-10-003-998A-7  
Sequence 7, Application US/10003998A  
Patent No. 6664064

GENERAL INFORMATION:

APPLICANT: Roche Diagnostics GmbH

OTHER INFORMATION: Method for melting curve analysis of repetitive PCR  
TITLE OF INVENTION: products  
FILE REFERENCE: 5438/00/EP  
CURRENT APPLICATION NUMBER: US/10/003,998A  
CURRENT FILING DATE: 2001-11-14  
NUMBER OF SEQ ID NOS: 8  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 7  
LENGTH: 29  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-003-998A-7

RESULT 12  
US-08-621-914A-3/C  
Sequence 3, Application US/08621914A  
Patent No. 5707807

GENERAL INFORMATION:

APPLICANT: KATO, KIRUYA

TITLE OF INVENTION: MOLECULAR INDEXING FOR EXPRESSED GENE  
TITLE OF INVENTION: ANALYSIS  
NUMBER OF SEQUENCES: 16

CORRESPONDENCE ADDRESS:

ADDRESSEE: PENNIE & EDMONDS  
STREET: 11155 AVENUE OF THE AMERICAS  
CITY: NEW YORK  
STATE: NY  
COUNTRY: USA  
ZIP: 10036-2711

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/621,914A  
FILING DATE: 26-MAR-1996  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: LAWRENCE LII, STANTON T.  
REGISTRATION NUMBER: 25,736  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 790-9090  
TELEFAX: (212) 869-9741  
TELEX: 66141 PENNIE  
SEQUENCE CHARACTERISTICS:  
LENGTH: 26 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
MOLECULE TYPE: other nucleic acid  
US-08-621-914A-3

Query Match      Best Local Similarity      Score      DB      Length  
Matches      24;      Conservative      96.0%;      Pred. No.      9.9e+03      1;      0;      0;

Qy      5187 CAACAAAAAA 5211  
Db      26 CAAAAAA 2

RESULT 13  
 US-09-648-040-4  
 Sequence 4, Application US/09648040  
 Patent No. 6436655  
 GENERAL INFORMATION:  
 APPLICANT: Robert G. Kuimelis  
 TITLE OF INVENTION: METHODS FOR CODING AND SORTING IN VITRO  
 TITLE OF INVENTION: TRANSLATED PROTEINS  
 FILE REFERENCE: 50036/032002  
 CURRENT APPLICATION NUMBER: US/09/648,040  
 CURRENT FILING DATE: 2000-08-25  
 PRIOR APPLICATION NUMBER: US 60/151,261  
 PRIOR FILING DATE: 1999-08-27  
 NUMBER OF SEQ ID NOS: 11  
 SOFTWARE: FastSEQ For Windows Version 4.0  
 SEQ ID NO 4  
 LENGTH: 30  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Encoding molecule  
 NAME/KEY: misc\_feature  
 LOCATION: 10  
 OTHER INFORMATION: n at position 10 can be a, t, c, or g.  
 US-09-648-040-4

Query Match 0.4%; Score 22.8; DB 1; Length 26;  
 Best Local Similarity 92.3%; Pred. No. 1.4e+04;  
 Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 5186 TCAACAAAAAA 5211  
 Db 26 TAAAAA 1

RESULT 15  
 US-09-522-217-38/C  
 Sequence 38, Application US/09522217  
 Patent No. 6307024  
 GENERAL INFORMATION:  
 APPLICANT: No. 6307024ak, Julia E.  
 APPLICANT: Presnell, Scott R.  
 APPLICANT: Sprecher, Cindy A.  
 APPLICANT: Foster, Donald C.  
 APPLICANT: Holly, Richard D.  
 APPLICANT: Gross, Jane A.  
 APPLICANT: Johnston, Janet V.  
 APPLICANT: Nelson, Andrew J.  
 APPLICANT: Dillon, Stacey R.  
 APPLICANT: Hammond, Angela K.  
 TITLE OF INVENTION: NOVEL CYTOKINE ZALPHA1 LIGAND  
 FILE REFERENCE: 99-16  
 CURRENT APPLICATION NUMBER: US/09/522,217  
 CURRENT FILING DATE: 2000-03-09  
 EARLIER APPLICATION NUMBER: US 60/123,547  
 EARLIER FILING DATE: 1999-03-09  
 EARLIER APPLICATION NUMBER: US 60/123,904  
 EARLIER FILING DATE: 1999-03-11  
 EARLIER APPLICATION NUMBER: US 60/142,013  
 EARLIER FILING DATE: 1999-07-01  
 NUMBER OF SEQ ID NOS: 115  
 SOFTWARE: FastSEQ for Windows Version 3.0  
 SEQ ID NO 38  
 LENGTH: 26  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Oligonucleotide primer ZC7764a  
 US-09-522-217-38

Query Match 0.4%; Score 22.8; DB 4; Length 26;  
 Best Local Similarity 92.3%; Pred. No. 1.4e+04;  
 Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 5186 TCAACAAAAAA 5211  
 Db 26 TAAAAA 1

RESULT 14  
 US-08-621-914A-1/C  
 Sequence 1, Application US/08621914A  
 Patent No. 570807  
 GENERAL INFORMATION:  
 APPLICANT: KATO, KIKUYA  
 TITLE OF INVENTION: MOLECULAR INDEXING FOR EXPRESSED GENE  
 TITLE OF INVENTION: ANALYSIS  
 NUMBER OF SEQUENCES: 16  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: PENNIE & EDMONDS  
 STREET: 1155 AVENUE OF THE AMERICAS  
 CITY: NEW YORK  
 STATE: NY  
 COUNTRY: USA  
 ZIP: 10036-2711  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/621,914A  
 FILING DATE: 26-MAR-1996  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: LAWRENCE LII, STANTON T.  
 REGISTRATION NUMBER: 25,736  
 REFERENCE/DOCKET NUMBER: 7005-107-999  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 790-9090  
 TELEFAX: (212) 869-9741  
 TELEX: 66141 PENNIE  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 26 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: unknown

Search completed: September 16, 2004, 01:46:03  
 Job time : 325 secs

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GenCore version 5.1.6  
 Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model  
 Run on: September 15, 2004, 16:24:03 ; Search time 2188 Seconds  
 (without alignments)

12040.701 Million cell updates/sec

Title: US-10-019-595-1  
 Perfect score: 5236  
 Sequence: 1 cggcgccggcccttgagg.....gtacccggatccctcgaaatc 5236

Scoring table: IDENTITY\_NUC  
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 Gapop 10.0, Gapext 1.0

Searched: 3304383 seqs, 2515761380 residues

Total number of hits satisfying chosen parameters: 1414684

Minimum DB seq length: 0  
 Maximum DB seq length: 30

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

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3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq:\*

4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq:\*

5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq:\*

6: /cgn2\_6/ptodata/2/pubpna/US07\_PUBCOMB.seq:\*

7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq:\*

8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq:\*

9: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq:\*

10: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq:\*

11: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:\*

12: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq:\*

13: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:\*

14: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq:\*

15: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq:\*

16: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq:\*

17: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq:\*

18: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*

19: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

RESULT 1  
 US-09-282-734-3

; Sequence 3, Application US/09282734A

; Publication No. US20020182597A1

; GENERAL INFORMATION:

; APPLICANT: Robert G. Kuimelis et al.

; TITLE OF INVENTION: ADDRESSABLE PROTEIN ARRAYS

; FILE REFERENCE: 50036/009002

; CURRENT APPLICATION NUMBER: US/09-282,734A

; CURRENT FILING DATE: 1999-03-03

; EARLIER APPLICATION NUMBER: 60/080,686

; EARLIER FILING DATE: 1998-04-03

; NUMBER OF SEQ ID NOS: 29

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 3

; LENGTH: 29

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

SUMMARIES

OTHER INFORMATION: Oligonucleotide used for attaching puromycin  
 US-09-282-734-3  
 Query Match 0.5%; Score 24.4; DB 9; Length 29;  
 Best Local Similarity 96.2%; Pred. No. 2.7e+04;  
 Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 5188 AACAAAAAA.....AAAAAACC 5213  
 Db 4 AAAA.....AAAAAACC 29  
 RESULT 2  
 US-09-876-235-8  
 ; Sequence 8, Application US/09876235  
 ; Publication No. US20030022236A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Szostak, Jack W.

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the total score distribution, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	24.4	0.5	29	9 US-09-282-734-3	Sequence 3, Appli
2	24.4	0.5	29	10 US-09-876-235-8	Sequence 8, Appli
3	24.4	0.5	29	15 US-10-348-6227-3	Sequence 3, Appli
4	24.4	0.5	29	17 US-10-057-783A-41	Sequence 41, Appli
c 5	23.4	0.4	26	9 US-09-099-823-14	Sequence 14, Appli
c 6	23.4	0.4	30	15 US-10-217-914-4	Sequence 4, Appli
c 7	22.8	0.4	26	9 US-09-922-480-7	Sequence 7, Appli
c 8	22.8	0.4	26	9 US-09-923-236-7	Sequence 7, Appli
c 9	22.8	0.4	26	9 US-09-923-246-38	Sequence 38, Appli
c 10	22.8	0.4	26	9 US-09-922-469-7	Sequence 7, Appli
c 11	22.8	0.4	26	15 US-10-295-723-38	Sequence 38, Appli
c 12	22.8	0.4	26	17 US-10-659-684-38	Sequence 6, Appli
c 13	22.6	0.4	26	9 US-09-922-480-6	Sequence 6, Appli
c 14	22.6	0.4	26	9 US-09-923-236-6	Sequence 6, Appli



OTHER INFORMATION: Oligonucleotide primer ZC7764a  
US-09-922-480-7

Query Match 0.4%; Score 22.8; DB 9; Length 26;  
Best Local Similarity 92.3%; Pred. No. 6.8e+04;  
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5186 TCAACAAAAAAAGAAAAAA 5211  
Db 26 TAAAAAAAGAAAAAA 1

RESULT 8  
US-09-923-236-7/C  
Sequence 7, Application US/09923236  
Patent No. US20020090677A1

GENERAL INFORMATION:  
APPLICANT: Sheppard, Paul O.  
ATTORNEY: Adler, David A.  
TITLE OF INVENTION: SECRETED SALIVARY ZSIG63 POLYPEPTIDE  
CURRENT APPLICATION NUMBER: US/09/923,236  
FILE REFERENCE: 97-71  
CURRENT FILING DATE: 2001-08-03  
PRIOR APPLICATION NUMBER: US 60/124,820  
PRIOR FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: FastSEQ for Windows Version 3.0  
SEQ ID NO 7

TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Oligonucleotide primer ZC7764a  
US-09-923-236-7

Query Match 0.4%; Score 22.8; DB 9; Length 26;  
Best Local Similarity 92.3%; Pred. No. 6.8e+04;  
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5186 TCAACAAAAAAAGAAAAAA 5211  
Db 26 TAAAAAAAGAAAAAA 1

RESULT 9  
US-09-923-246-38/C  
Sequence 38, Application US/09923246  
Patent No. US20020128446A1

GENERAL INFORMATION:  
APPLICANT: No. US20020128446A1ak, Julia E.  
ATTORNEY: Presnell, Scott R.  
TITLE OF INVENTION: NOVEL CYTOKINE ZALPHA1 LIGAND  
FILE REFERENCE: 99-16  
CURRENT APPLICATION NUMBER: US/09/923,246  
PRIOR FILING DATE: 2001-08-03  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/522,217  
PRIOR FILING DATE: EARLIER FILING DATE: 2000-03-09  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/123,904  
PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-11  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/142,013  
PRIOR FILING DATE: EARLIER FILING DATE: 1999-07-01  
NUMBER OF SEQ ID NOS: 115  
SOFTWARE: FastSEQ for Windows Version 3.0  
SEQ ID NO 38  
LENGTH: 26

OTHER INFORMATION: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: n at position 10 can be a, t, c, or g.  
US-10-217-914-4

Query Match 0.4%; Score 23.4; DB 15; Length 30;  
Best Local Similarity 92.3%; Pred. No. 5.3e+04;  
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5188 AACAAAGAAAAAAAGACC 5213  
Db 5 AAAANAAAAAAAGACC 30

RESULT 7  
US-09-922-480-7/C  
Sequence 7, Application US/09922480  
Patent No. US2002008170A1

GENERAL INFORMATION:  
APPLICANT: Sheppard, Paul O.  
ATTORNEY: Adler, David A.  
TITLE OF INVENTION: SECRETED SALIVARY ZSIG63 POLYPEPTIDE  
FILE REFERENCE: 97-71  
CURRENT APPLICATION NUMBER: US/09/922,480  
CURRENT FILING DATE: 2001-08-03  
PRIOR APPLICATION NUMBER: US 60/124,820  
PRIOR FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: FastSEQ for Windows Version 3.0  
SEQ ID NO 7  
LENGTH: 26  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:

```

; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide primer ZC7764a
US-09-923-246-38

Query Match 0.4%; Score 22.8; DB 9; Length 26;
Best Local Similarity 92.3%; Pred. No. 6.8e+04;
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5186 TCAACAAAAAA 5211
Db 26 TAAAAAAA 1

RESULT 10
US-09-922-469-7/c
; Sequence 7, Application US/09922469
; Patent No. US200020173027A1
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: SECRETED SALIVARY ZSIG63 POLYPEPTIDE
; FILE REFERENCE: 97-71
; CURRENT APPLICATION NUMBER: US/09/922,469
; PRIOR APPLICATION NUMBER: 2001-08-03
; PRIOR FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 26
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide primer ZC7764a
US-09-922-469-7

Query Match 0.4%; Score 22.8; DB 9; Length 26;
Best Local Similarity 92.3%; Pred. No. 6.8e+04;
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5186 TCAACAAAAAA 5211
Db 26 TAAAAAAA 1

RESULT 11
US-10-295-723-38/c
; Sequence 38, Application US/10295723
; Publication No. US20030125524A1
; GENERAL INFORMATION:
; APPLICANT: NO. US20030125524A1, Julia E.
; APPLICANT: Presnell, Scott R.
; APPLICANT: Sprecher, Cindy A.
; APPLICANT: Foster, Donald C.
; APPLICANT: Gross, Jane A.
; APPLICANT: Johnston, Janet V.
; APPLICANT: Nelson, Andrew J.
; APPLICANT: Dillon, Stacey R.
; APPLICANT: Hammond, Angela K.
; TITLE OF INVENTION: NOVEL CYTOKINE ZALPHA11 LIGAND
; FILE REFERENCE: 99-16
; CURRENT APPLICATION NUMBER: US/10/659,684
; CURRENT FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: US/09/522,217
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/123,547
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/123,904
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-11
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/142,013
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-07-01
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 26
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide primer ZC7764a
US-10-659-684-38

Query Match 0.4%; Score 22.8; DB 17; Length 26;
Best Local Similarity 92.3%; Pred. No. 6.8e+04;
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5186 TCAACAAAAAA 5211
Db 26 TAAAAAAA 1

RESULT 12
US-10-659-684-38/c
; Sequence 38, Application US/10659684
; Publication No. US20040110932A1
; GENERAL INFORMATION:
; APPLICANT: Novak, Julia E.
; APPLICANT: Presnell, Scott R.
; APPLICANT: Sprecher, Cindy A.
; APPLICANT: Foster, Donald C.
; APPLICANT: Holly, Richard D.
; APPLICANT: Gross, Jane A.
; APPLICANT: Johnston, Janet V.
; APPLICANT: Nelson, Andrew J.
; APPLICANT: Dillon, Stacey R.
; APPLICANT: Hammond, Angela K.
; TITLE OF INVENTION: NOVEL CYTOKINE ZALPHA11 LIGAND
; FILE REFERENCE: 99-16
; CURRENT APPLICATION NUMBER: US/10/659,684
; CURRENT FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: US/09/522,217
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/123,547
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/123,904
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-11
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/142,013
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-07-01
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 26
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide primer ZC7764a
US-10-659-684-38

Query Match 0.4%; Score 22.8; DB 17; Length 26;
Best Local Similarity 92.3%; Pred. No. 6.8e+04;
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5186 TCAACAAAAAA 5211
Db 26 TAAAAAAA 1

RESULT 13
US-09-922-480-6/c
; Sequence 6, Application US/09922480
; Patent No. US20020081701A1
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Adler, David A.
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Adler, David A.
; APPLICANT: Adler, David A.

; CURRENT APPLICATION NUMBER: US/10/295,723
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: 09/522,217
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: US 60/123,547
; PRIOR FILING DATE: 1999-03-09
; PRIOR APPLICATION NUMBER: US 60/123,904
; PRIOR FILING DATE: 1999-03-11
; PRIOR APPLICATION NUMBER: US 60/142,013
; PRIOR FILING DATE: 1999-07-01

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1 TITLE OF INVENTION: SECRETED SALIVARY ZSIG63 POLYPEPTIDE  
 1 FILE REFERENCE: 97-71.  
 1 CURRENT APPLICATION NUMBER: US/09/922,480  
 1 CURRENT FILING DATE: 2001-08-03  
 1 PRIOR APPLICATION NUMBER: US 60/124,820  
 1 PRIOR FILING DATE: 1999-03-17  
 1 NUMBER OF SEQ ID NOS: 9  
 1 SOFTWARE: FastSEQ for Windows Version 3.0  
 1 SEQ ID NO 6  
 1 LENGTH: 26  
 1 TYPE: DNA  
 1 ORGANISM: Artificial Sequence  
 1 FEATURE:  
 1 OTHER INFORMATION: Oligonucleotide primer ZC7231  
 US-09-922-480-6

Query Match 0.4%; Score 22.6; DB 9; Length 26;  
 Best Local Similarity 92.0%; Pred. No. 7.7e+04;  
 Matches 23; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 Qy 5187 CAACAAAAAA 5211  
 Db 26 BAAAAAAA 2

RESULT 14  
 US-09-923-236-6/C  
 Sequence 6, Application US/09923236  
 Patent No. US20020090677A1  
 GENERAL INFORMATION:  
 APPLICANT: Sheppard, Paul O.  
 ATTORNEY: Adler, David A.  
 TITLE OF INVENTION: SECRETED SALIVARY ZSIG63 POLYPEPTIDE  
 FILE REFERENCE: 97-71  
 CURRENT APPLICATION NUMBER: US/09/923,236  
 CURRENT FILING DATE: 2001-08-03  
 PRIOR APPLICATION NUMBER: US 60/124,820  
 PRIOR FILING DATE: 1999-03-17  
 NUMBER OF SEQ ID NOS: 9  
 SOFTWARE: FastSEQ for Windows Version 3.0  
 SEQ ID NO 6  
 LENGTH: 26  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Oligonucleotide primer ZC7231  
 US-09-923-236-6

Query Match 0.4%; Score 22.6; DB 9; Length 26;  
 Best Local Similarity 92.0%; Pred. No. 7.7e+04;  
 Matches 23; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 Qy 5187 CAACAAAAAA 5211  
 Db 26 BAAAAAAA 2

RESULT 15  
 US-09-922-469-6/C  
 Sequence 6, Application US/09922469  
 Patent No. US2002173027A1  
 GENERAL INFORMATION:  
 APPLICANT: Sheppard, Paul O.  
 ATTORNEY: Adler, David A.  
 TITLE OF INVENTION: SECRETED SALIVARY ZSIG63 POLYPEPTIDE  
 FILE REFERENCE: 97-71  
 CURRENT APPLICATION NUMBER: US/09/922,469  
 CURRENT FILING DATE: 2001-08-03  
 PRIOR APPLICATION NUMBER: US 60/124,820  
 PRIOR FILING DATE: 1999-03-17  
 NUMBER OF SEQ ID NOS: 9  
 SOFTWARE: FastSEQ for Windows Version 3.0  
 SEQ ID NO 6

1 LENGTH: 26  
 1 TYPE: DNA  
 1 ORGANISM: Artificial Sequence  
 1 FEATURE:  
 1 OTHER INFORMATION: Oligonucleotide primer ZC7231  
 US-09-922-469-6

Query Match 0.4%; Score 22.6; DB 9; Length 26;  
 Best Local Similarity 92.0%; Pred. No. 7.7e+04;  
 Matches 23; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 Qy 5187 CAACAAAAAA 5211  
 Db 26 BAAAAAAA 2

Search completed: September 16, 2004, 02:22:36  
 Job time : 2189 secs

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GenCore version 5.1.6  
(c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 15, 2004, 16:08:59 ; Search time 12080 Seconds  
(without alignments)  
12943.574 Million cell updates/sec

Title: US-10-019-595-1

Perfect score: 5236  
Sequence: 1 cgagcggggcccttgaggc.....gtacccggatccctcgaaattc 5236

Scoring table: IDENTITY-NUC  
Gapop 10.0 , Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters: 38748

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Minimum DB seq length: 30  
Maximum DB seq length: 30  
Database : EST:  
1: em\_estba:\*

2: em\_estbum:\*

3: em\_estin:\*

4: em\_estmu:\*

5: em\_estov:\*

6: em\_estpl:\*

7: em\_estro:\*

8: em\_htc:\*

9: gb\_est1:\*

10: gb\_est2:\*

11: gb\_htc:\*

12: gb\_est3:\*

13: gb\_est4:\*

14: gb\_est5:\*

15: em\_estfun:\*

16: em\_estom:\*

17: em\_gss\_hum:\*

18: em\_gss\_inv:\*

19: em\_gss\_pln:\*

20: em\_gss\_vrt:\*

21: em\_gss\_fun:\*

22: em\_gss\_mam:\*

23: em\_gss\_mus:\*

24: em\_gss\_pro:\*

25: em\_gss\_rod:\*

26: em\_gss\_phg:\*

27: em\_gss\_vrl:\*

28: gb\_gssi:\*

29: gb\_gss2:\*

#### ALIGNMENTS

RESULT 1  
AZ481286/C  
LOCUS 28 bp DNA linear GSS 04-OCT-2000  
DEFINITION 1M0303L24F Mouse 10kb plasmid JUGC1M library Mus musculus genomic  
clone JUGC1M0303L24 F, genomic survey sequence.

ACCESSION AZ481286  
VERSION AZ481286.1 GI:10642351  
KEYWORDS GSS  
SOURCE Mus musculus (house mouse)  
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
AUTHORS Dunn, D., Aoyagi, A., Barber, M., Mahmoud, M., Meenen, E., Pedersen, T.,  
Islam, H., Longacre, S., Reilly, M., Rose, M., Stokes, R., Tingey, A., von  
Niederhausern, A., and Wright, D. Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
JOURNAL Unpublished (2000)  
COMMENT Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5605  
Fax: 801 585 7177

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	24.4	0.5	28	AZ481286	AZ481286 1M0303L24
C 2	24.4	0.5	29	14	T67079 Ya52f07.r3
C 3	24.4	0.5	29	28	AZ819924 2M0091A19
C 4	24	0.5	30	28	AZ458127 1M0261I24

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Email: ddunn@genetics.utah.edu  
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 Seq primer: CGTTGTAACGACGGCCAGT  
 Class: Plasmid ends  
 Quality sequence stop: 28.  
 Location/Qualifiers  
 1. 28  
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 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
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 /sex="Male"  
 /lab\_host="E. Coli strain XL10  
 /clone\_lib="Mouse 10kb plasmid  
 /note="Vector: PWD42nv; Purified  
 musculus C57BL/6J (male) was of  
 laboratory Mouse DNA Resource  
 (<http://www.jax.org/resources/>  
 was hydrodynamically sheared by  
 0.005 inch orifice at constant  
 was blunt end-repaired with T4  
 polynucleotide kinase. Adaptor  
 ligated to the blunt ends in h  
 adaptor DNA was purified and  
 10.5 kb range using preparative  
 electrophoresis. Vector DNA was  
 of PWD42 (gi|4732114|gb|AF1290  
 inducible derivative of plasmid  
 with adaptors complementary to  
 purified. The sheared, adaptor  
 adaptor vector DNA, and trans  
 chemically-competent E. coli X  
 and selected for ampicillin res  
 ORIGIN  
 Query Match 0.5%; Score 24.4; DB 2  
 Best Local Similarity 96.2%; Pred. No. 1.6e+07  
 Matches 25; Conservative 0; Mismatches 0  
 PRECURSOR (HUMAN); mRNA sequence.  
 T67079 5187 CAACAA.....AAC 5212  
 28 CAAAA.....AAC 3  
 T67079 5187 CAACAA.....AAC 5212  
 28 CAAAA.....AAC 3  
 RESULT 2  
 T67079 LOCUS T67079 29 bp mRNA  
 DEFINITION ya52f07-r3 Soares fetal liver spleen LN  
 IMAGE:66565 5, similar to gb:X02492 INT  
 PRECURSOR (HUMAN); mRNA sequence.  
 T67079 T67079.1 GI:676519  
 EST.  
 Homo sapiens (human)  
 Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata;  
 Mammalia; Eutheria; Primates;  
 Catarrhini;  
 1 (bases 1 to 29)  
 Hillier,L., Clark,N., Dubuque,T., Ellis,  
 Holman,M., Hultman,M., Kucaba,T., Le,M.,  
 Parsons,J., Riffkin,J., Rohlfing,T., Soaa,  
 Trevaskis,B., Waterston,R., Williamson,J.,  
 Wilson,R.  
 The WashU-Merck EST Project  
 Unpublished (1995)  
 Contact: Wilson RK  
 Washington University School of Medicine  
 4444 Forest Park Parkway, Box 8501, St.  
 Tel: 314 286 1800  
 Fax: 314 286 1810  
 Email: est@washu.edu  
 COMMENT  
 TITLE  
 JOURNAL  
 JOURNAL  
 COMMENT

@genetics.utah.edu		High quality sequence starts: 1	
th: 10000	Std Error: 0.00	High quality sequence stops: 1	
row: L	column: 24	Source: IMAGE Consortium, LLNL	
CGTTGTAACGACGGCCAGT		This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.	
Trace considered overall poor quality		Seq primer: T7	
High quality sequence stop: 1.		Location/Qualifiers	
1.		1.	
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.lab_host="DH10B (ampicillin resistant)"		/lab_host="DH10B (ampicillin resistant)"	
.clone_lib="Soares fetal liver spleen 1NFLS"		/clone_lib="Soares fetal liver spleen 1NFLS"	
.note="Organ: Liver and Spleen; Vector: PT7T3D (Pharmacia)		/note="Organ: Liver and Spleen; Vector: PT7T3D (Pharmacia)	
with a modified polylinker; Site 1: Pac I; Site 2: Eco RI;		with a modified polylinker; Site 1: Pac I; Site 2: Eco RI;	
1st strand cDNA was primed with a Pac I - Oligo(dT) primer		1st strand cDNA was primed with a Pac I - Oligo(dT) primer	
[5, AACTGGAAAGATTAAAGATCTTTTTTTTTTTTTT 3'],		[5, AACTGGAAAGATTAAAGATCTTTTTTTTTTTT 3'],	
double-stranded cDNA was ligated to Eco RI adaptors		double-stranded cDNA was ligated to Eco RI adaptors	
(Pharmacia), digested with Pac I and cloned into the Pac I		(Pharmacia), digested with Pac I and cloned into the Pac I	
and Eco RI sites of the modified PT7T3 vector. Library		and Eco RI sites of the modified PT7T3 vector. Library	
went through one round of normalization. Library		went through one round of normalization. Library	
constructed by Bento Soares and M.Fatima Bonaldo."		constructed by Bento Soares and M.Fatima Bonaldo."	
FEATURES		ORIGIN	
source		Query Match	
.xref="taxon:10090"		0.5%	
.clone="UGGC1M0303L24"		Score 24.4;	
.sex="Male"		DB 14;	
.ab_host="E. Coli strain XL10-Gold, T1-resistant, F-"		Length 29;	
.clone_lib="Mouse plasmid UGGC1M library"			
.note="Vector: PWD42nv; Purified genomic DNA from M.			
.strain="C57BL/6J" (male) was obtained from the Jackson			
Laboratory Mouse DNA Resource			
http://www.jax.org/resources/documents/dnarefs/). The DNA			
is hydrodynamically sheared by repeated passage through a			
0.05 inch orifice at constant velocity. The sheared DNA			
is blunt end-repaired with T4 DNA polymerase and T4			
lynuclease kinase. Adaptor oligonucleotides were re-			
gated to the blunt ends in high molar excess. The			
ligated DNA was purified and size-selected for a 9.5 to			
5 kb range using preparative agarose gel			
electrophoresis. Vector DNA was prepared from a derivative			
of PWD42 (gi 4732114 gb AF129072.1), a copy-number			
ducible derivative of plasmid R1. The vector was ligated			



/organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UJGC2M:0074C14"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb Plasmid JUGC1M library"  
 /note="Vector: PCR4-TOPO; Site 1: EcoRI; mRNA was capped with oligoribonucleotides and then used as templates for RT-PCR."

ORIGIN

Query Match 0.5%; Score 23.8; DB 14; Length 29;  
 Best Local Similarity 92.6%; Pred. No. 2e+07;  
 Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5188 AACAAAAAAAGAAAAAAACCA 5214  
 Db 1 AAAAAAAAGAAAAAAACAA 27

RESULT 7  
 N33150/c  
 LOCUS N33150  
 DEFINITION YY06901.s1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:270480 3' similar to gb:D29805 N-ACETYLGLUCOSAMINE SYNTHASE (HUMAN); mRNA sequence.

ACCESSION N33150  
 VERSION N33150.1 GI:1153549  
 KEYWORDS EST.  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo (bases 1 to 25)

REFERENCE 1  
 AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J., Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and Wilson,R.  
 TITLE The WashU-Merck EST Project  
 JOURNAL Unpublished (1995)  
 COMMENT Contact: Wilson RK  
 Washington University School of Medicine  
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
 Tel: 314 286 1800  
 Fax: 314 286 1810  
 Email: est@watson.wustl.edu  
 High quality sequence starts: 1  
 Source: IMAGE Consortium, LLNL  
 This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.  
 Trace considered overall poor quality  
 Seq primer: m13 -40 forward  
 High quality sequence stop: 1.  
 FEATURES  
 source  
 /organism="Homo sapiens"  
 /tissue\_type="melanocyte"  
 /lab\_host="DH10B (ampicillin resistant)"  
 /clone\_lib="Soares melanocyte 2NbHM"  
 /note="Vector: PT7T3D (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5', TGTTACCAATCTGAACTGGGAGCCGCCAGTTTTTTTTTT 3'], double-stranded cDNA was size selected, ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified PT7T3 vector (Pharmacia). Library constructed by Bento Soares and M. Fatima Bonaldo. RNA from normal foreskin melanocytes (FS374) was kindly provided by Dr. Anthony P. Albino."  
 ORIGIN

/organism="Orzyza sativa"  
 /mol\_type="mRNA"  
 /cultivar="Nackdong"  
 /db\_xref="taxon:4530"  
 /clone="NACL--03-G12"  
 /tissue\_type="callus"  
 /dev\_stage="proliferated" callus on 2N6 media for 30 days"  
 /lab\_host="E.coli DH10B"

ORIGIN

RESULT 6  
 CF328476  
 DEFINITION NACL--03-G12.b1 Rice callus plasmid cDNA library (NACL) Oryza sativa cDNA clone NACL--03-G12, mRNA sequence.

ACCESSION CF328476  
 VERSION CF328476.1 GI:33805199  
 KEYWORDS EST.  
 SOURCE Oryza sativa  
 ORGANISM Oryza sativa  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Ehrhartoideae; Oryzeae; Oryza.  
 1 (bases 1 to 29)  
 Kim,J.S., Jun,K.M., Cheong,P.J., Kim,M.J., Lee,T.H., Shin,Y.C.,  
 Song,S.I., Kim,J.K., Kim,Y.-K. and Nahm,B.H.  
 Large-scale Sequencing Analysis of Rice ESTs  
 Unpublished (2003)  
 Contact: Nahm,B.H.  
 Genomics and Genetics Institute, GreenGene Biotech Inc.; Division of Bioscience and Bioinformatics, MyongJi University  
 Yongin, Kyeonggi, Korea  
 Tel: 82 31 330 6193  
 Fax: 82 31 321 6355  
 Email: bhnahn@ggbio.com, bhnahn@bio.myongji.ac.kr.  
 FEATURES  
 source  
 /organism="Orzyza sativa"  
 /tissue\_type="melanocyte"  
 /lab\_host="Soares melanocyte 2NbHM"  
 /clone\_lib="Soares melanocyte 2NbHM"  
 /note="Vector: PT7T3D (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5', TGTTACCAATCTGAACTGGGAGCCGCCAGTTTTTTTT 3'], double-stranded cDNA was size selected, ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified PT7T3 vector (Pharmacia). Library constructed by Bento Soares and M. Fatima Bonaldo. RNA from normal foreskin melanocytes (FS374) was kindly provided by Dr. Anthony P. Albino."  
 ORIGIN



AUTHORS		Hiller, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J., Rifkin, L., Rohlffing, T., Soares, M., Tan, F., Trevaskis, E., Waterston, R., Williamson, A., Woldhmann, P. and Wilson, R.		The WashU-Merck EST Project Unpublished (1995) Contact: Wilson RK Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: est@watson.wustl.edu		GCGGCCGCGTTTTTTTTTTTTT 3' Poly A RNA purchased from Clonetech (*6854-4- Seq primer: M13F.		
TITLE		This clone is available royalty-free through LInL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information.		Trace considered overall poor quality Seq primer: m13 -40 forward High quality sequence stop: 1.				
JOURNAL								
COMMENT								
FEATURES		source		1. .27 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="GDB:3793948" /db_xref="taxon:9606" /clone="IMAGE:244702" /sex="male" /dev_stage="20 week-post conception fetus" /lab_host="DH10B (ampicillin resistant)" /clone_lib="Soares fetal liver spleen 1NFLS" /note="Organ: Liver and Spleen; Vector: PT7T3D (Pharmacia) with a modified polylinker; Site 1: Pac I; Site 2: Eco RI; 1st strand cDNA was primed with a Pac I - oligo(dT) primer [5', AACTGGAAAGATAATTAAATAATTCAGATCTTTTTTTT 3'], double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Pac I and cloned into the Pac I and Eco RI sites of the modified pt7T3 vector. Library constructed by Bento Soares and M. Fatima Bonaldo."		Query Match 0.4%; Score 23.4; DB 14; Length 27; Best Local Similarity 92.3%; Pred. No. 2.3e+07; Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;		1. .28 /organism="Gallus gallus" /mol_type="mRNA" /db_xref="taxon:9031" /clone="ROS059D03" /tissue_type="Brain" /dev_stage="Unknown" /lab_host="DH10B" /clone_lib="BP Chicken Brain Library" /note="Vector: PSPORT1; Site 1: NotI; Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT. 5' adaptor sequence: 5', TCGACCTTCGAG 3'; 3' adaptor sequence: 5', GCGGGCGCTTTTTTTTTTTTTTTTTT 3', Poly A RNA purchased from Clonetech (*6854-1)"
LOCATION/QUALIFIERS		ORIGIN		Query Match 0.4%; Score 23.4; DB 9; Length 28; Best Local Similarity 92.3%; Pred. No. 2.3e+07; Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;				
FEATURES		source		Qy 5190 CAAAAA.....AAAAACCAT 5215 Db 26 CAAAAAAA.....AAAAAAAAT 1		RESULT 12 CF299294 LOCUS 7LEAF-03-E04.91 Rice leaf plasmid cDNA library II (7LEAF) Oryza sativa CDNA clone 7LEAF--03-E04, mRNA sequence. CF299294 EST. CF299294.1 GI:33671055 DEFINITION Large-scale Sequencing Analysis of Rice ESTs ACCESSION CF299294 VERSION EST. KEYWORDS SOURCE Oryza sativa ORGANISM Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Ehrhartoideae; Oryzeae; Oryzae. COMMENT 1 (bases 1 to 28) REFERENCE Kim, J.S., Jun, K.M., Cheong, P.J., Kim, M.J., Lee, T.H., Shin, Y.C., Song, S.I., Kim, J.K., Kim, Y.-K. and Nahm, B.H. TITLE Large-scale Sequencing Analysis of Rice ESTs JOURNAL Unpublished (2003) CONTACT Nahm B.H.		
FEATURES		source		Query Match 0.4%; Score 23.4; DB 14; Length 27; Best Local Similarity 92.3%; Pred. No. 2.3e+07; Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;		Genomics and Genetics Institute, GreenGene Biotech Inc.; Division of Bioscience and Bioinformatics, MyongJi University Yongin, Kyeonggi, Korea Tel: 82 31 330 6193 Fax: 82 31 321 6355 Email: bhnahn@ggbio.com, bhnahn@bio.myongji.ac.kr.		
LOCATION/QUALIFIERS		ORIGIN		Query Match 0.4%; Score 23.4; DB 14; Length 27; Best Local Similarity 92.3%; Pred. No. 2.3e+07; Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;		RESULT 11 AL587582 LOCUS 7LEAF-03-E04 DEFINITION mRNA sequence. ACCESSION AL587582.1 VERSION EST. KEYWORDS SOURCE Gallus gallus (chicken) ORGANISM Gallus gallus COMMENT 1 (bases 1 to 28) REFERENCE Murray, F. TITLE BP Chicken Brain Library JOURNAL Unpublished (2001) COMMENT Contact: Frazer Murray Dept. Genomics and Bioinformatics Roslin Institute, Midlothian, EH25 9PS, UK Tel: +44 (0)131 527 4200 Fax: +44 (0)131 440 0434 Email: frazer.murray@bbsrc.ac.uk		
FEATURES		source		Query Match 0.4%; Score 23.4; DB 14; Length 28; Best Local Similarity 96.0%; Pred. No. 2.3e+07; Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;		Query Match 0.4%; Score 23.4; DB 14; Length 28; Best Local Similarity 96.0%; Pred. No. 2.3e+07; Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		



FEATURES  
Source Email: bhnahm@ggbio.com, bhnahm@bio.myongji.ac.kr.  
Location/Qualifiers  
1. 24  
/organism="Oryza sativa"  
/mol type="mRNA"  
/cultivar="Nackdong"  
/db\_xref="taxon:4530"  
/clone="ABF--07-P12"  
/tissue type="leaf"  
/dev\_stage="14 days after germination"  
/lab\_host="E.coli DH10B"  
/clone lib="ABF3-overexpressing transgenic rice plasmid  
CDNA library (ABF)"  
/note="Vector: pCR4-TOPO; Site 1: EcoRI; Leaf was dried  
for 2 hrs. Oligo-capped mRNA was reverse transcribed and  
then used for PCR. mRNA was prepared from ABA-responsive  
element binding transcription factor 3 overexpression  
line."

## ORIGIN

Query Match 0 4%; Score 23; DB 14; Length 24;  
Best Local Similarity 100.0%; Pred. No. 2.8e+07;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
• Qy 5191 AAAAAA.....AAC 5213  
• Db 23 AAAAAA.....AAC 1

• Search completed: September 16, 2004, 01:40:37  
Job time : 12085 secs